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## INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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SECRET

COUNTRY East Germany

REPORT

SUBJECT Tube Development and Production at  
VEB Funkwerk Erfurt

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1. In October 1954, the radio tube development department of VEB Funkwerk Erfurt, under the direction of Dr. Heinze (fnu), had a staff of about 300. The tube production department employed about 3000 and it was anticipated that this figure would increase, in view of the plan of the Ministry for General Machine Construction to concentrate the production of broadcast tubes in Erfurt and reduce the production commitment of the VEB Werk fuer Fernmeldewesen HF to technical tubes only.
2. At that date, the following miniature tubes were in the course of development at Erfurt:
  - a. ECC 82 (VHF amplifying tube)
  - b. ECC 83 (VHF amplifying tube)
  - c. ECC 85
  - d. EF 89
  - e. PCC 84
  - f. PCF 82

both tubes were exhibited at the Leipzig Fair, but were not in production because their development had not been satisfactorily concluded.
3. The Erfurt plant has maintained an interest in subminiature tubes since it took over the production of small radio-sonde triodes from the former Roehrenwerk Fonetika, Weissensee, when that factory was closed down and most of its work absorbed by VEB Roehrenwerk Muhlhausen in 1950.
4. At the end of October 1954, the following types of tubes were in production at Erfurt:
  - a. The harmonic series ("die harmonische Serie")<sup>1</sup>
  - b. Miniature tubes:
 

ECC 81	6 AK 5
EC 92	EL 84
PCL 81	EZ 80

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All except the last two (which were developed in Erfurt) were developed in the HF Plant and handed over to Erfurt to mass produce.

c. Rectifier tubes:

EZ 80	FY 81
EY 82	EY 51

The first two were developed in Erfurt and the last two in the HF plant. The EY 51 has been a source of considerable trouble; for example, when production was running at about 250 per month, it was found that voltage output was not constant.<sup>2</sup>

d. Transmitter tubes:

558 } only two or three of each type have been  
566 } produced each month.

Comments.

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<sup>2</sup>There is some doubt whether the EY-51, a high voltage rectifier tube, is actually being produced at Erfurt; it may be under production at Muehlhausen.

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